

^{152}Er $Z = 68$ $N = 84$ [link to full NNDC output](#)

Based on ENSDF from Dec 2018, and mass evaluation from 2016

BE = 1234.141 (0.009) MeV

Qbeta+ = 3.104 (0.015) MeV

	Energy T	J+	J-	J-other	T1/2

S-alpha=	-4.934	(0.012)	-----		
152ER 1	0.000	0+			1 10.3 S 1
152ER 2	0.808	2+			2
152ER 3	1.481	4+			3
152ER 4				1.524 (3-)	4
152ER 5				1.715 (2+)	5
152ER 6	1.903	6+			6
152ER 7	2.183	8+			7 1.8 NS 3
152ER 8	2.948	10+			8
152ER 9				3.730	9
152ER 10	3.735	12+			10

S-p =	4.167	(0.012)	-----		
152ER 11	4.289	14+			11
152ER 12	4.519	16+			12 1.2 NS 3
152ER 13				4.536 (15)+	13
152ER 14	4.685	16+			14 4.6 NS 14
152ER 15	5.080	18+			15
152ER 16				5.415	16
152ER 17				5.460 (17)-	17
152ER 18				5.635 (18)-	18

S-2p =	5.769	(0.010)	-----		
152ER 19				5.811 (19)-	19
152ER 20				5.967	20

152ER 21				6.037 (19)-	21
152ER 22				6.176 (20)-	22
152ER 23				6.407	23
152ER 24				6.477 (20-)	24
152ER 25				6.487 (21)-	25
152ER 26				6.555 (21)-	26
152ER 27				6.734	27
152ER 28				6.757	28
152ER 29				6.838 (22-)	29
152ER 30				7.012 (22)-	30

152ER 31				7.119 (23)-	31
152ER 32				7.449 (24)-	32
152ER 33				8.113	33
152ER 34				8.233 (26)-	34

152ER 35				8.350		35
152ER 36				8.490		36
152ER 37				8.515	(25)	37
152ER 38				8.528	(27)	38
152ER 39				8.660	(26)-	39
152ER 40				8.691		40

152ER 41				8.863		41
152ER 42				9.680		42
152ER 43		9.712	28+			43 35 NS 4
152ER 44				9.725		44
152ER 45				10.083		45
S-n	=	10.306	(0.019)	-----		
152ER 46				10.307		46
152ER 47				10.394		47
152ER 48				10.548		48
152ER 49				11.121		49
152ER 50				11.400		50

152ER 51				12.121		51
152ER 52				13.030		52
152ER 53				13.387		53 11 NS 1
152ER 54				14.945		54

S-p	=	4.167	(0.012)	-----		
S-n	=	10.306	(0.019)	-----		
S-2p	=	5.769	(0.010)	-----		
S-2n	=	18.812	(0.019)	-----		
S-alpha	=	-4.934	(0.012)	-----		
S+p	=	-0.762	(0.015)			
S+n	=	-8.039	(0.013)			
S+2p	=	-4.010	(0.019)			
S+2n	=	-18.247	(0.010)			
S+alpha	=	4.810	(0.013)			
gap p	=	3.405	(0.019)			
gap n	=	2.266	(0.023)			
gap 2p	=	1.759	(0.022)			
gap 2n	=	0.565	(0.022)			
gap alpha	=	-0.124	(0.018)			